

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Michael L. Parson
Governor

Dru Buntin
Director

July 30, 2024

**FINANCIAL ASSISTANCE CENTER
FINDING OF NO SIGNIFICANT IMPACT/ENVIRONMENTAL ASSESSMENT**

TO: ALL INTERESTED GOVERNMENT AGENCIES AND PUBLIC GROUPS

In accordance with procedures for environmental review found at 10 CSR 60-13.030, a review has been performed on the proposed action below:

Project Identification: Drinking Water System Distribution Improvements

Applicant: City of LaGrange

Project No: DW291384-01

City: LaGrange

County: Lewis

State: Missouri

Estimated Project Amount: \$628,400

Potential State Revolving Fund (SRF) Amount: \$628,400

COMMUNITY DESCRIPTION:

Location: The City of LaGrange is located in northeastern Missouri on the eastern edge of Lewis County. The city is approximately 7 miles south of the City of Canton, Missouri.

Population, Present and Projected, and Design Year: The city serves a population of approximately 874 people with an average daily water demand of 69,173 gallons per day (gpd) with a max day demand of 103,759 gpd. Twenty-year growth forecasts approximately 1,066 people with an average daily water demand of 84,368 gpd and a max day demand of approximately 126,552 gpd.

Current Methods of Supply, Storage, Water Treatment, and Distribution: The distribution system is comprised of water mains ranging from 1 to 8 inches in diameter. The city acquires water from two primary alluvial wells and a single emergency well. There are two storage facilities: a 300,000-gallon storage tower and a 75,000-gallon storage tower. There is a water treatment plant in operation located at the southwest corner of the intersection between Third Street and Pierce Street. The treatment plant has a clearwell, two high service pumps, and three pressure filters to remove iron and manganese. The plant has an average daily production value of 69,173 gpd, a total design capacity of 432,000 gpd, and a total emergency capacity of 285,000 gpd.



PROJECT DESCRIPTION:

Distribution Improvements: The project will consist of the construction of approximately 3,600 linear feet of 8-inch and 1,035 linear feet of 4-inch polyvinyl chloride (PVC) pipe, valves, and appurtenances. These water mains will increase system pressures under static conditions and provide greater reliability in the system.

Purpose and Need: The purpose of the project is to make the necessary improvements to enable the city to operate a water system that meets drinking water quality standards and provide reliable water service, both now and within the city's planning period. The improvements are proposed to increase system pressures under static conditions and to provide greater reliability in the system.

Design Factors: Work will be performed in right-of-ways, easements, and on property owned by the water system. Construction activity will consist of boring, trenching, digging, and movement of machinery over the surface. The design standards used in this project are based on the 2013 Minimum Design Standards for Missouri Community Water Systems.

ALTERNATIVES CONSIDERED:

- No Action (Not Selected): This alternative would require the city to continue to operate and maintain the existing system to provide water service to its customers. This alternative would not address the system pressures or reliability.
- Action Alternative No. 1 (Selected): This action alternative will replace and upgrade water lines in the city. This will include replacing a 6-inch cast iron pipe with 8-inch PVC pipe, SDR-21 starting at the capped tee at Jefferson Street and following along the east side of Main Street for approximately 2,275 feet, then continuing along the west side of Main Street for approximately 1,225 feet until reaching the tower between 3rd Street and Main Street.
- Action Alternative No. 2 (Not Selected): This action alternative is identical to Action Alternative No. 1, with the addition that the high service pumps at the water treatment plant be replaced due to the fact they have previously been in operation above their design load.

REASONS FOR SELECTION OF PROPOSED ALTERNATIVES

Selected Actions: Action Alternative No. 1 was selected over the other alternatives as it provides the most feasible and cost-effective solution to provide adequate water, provide redundancy within the system, and will help balance system pressure.

ENVIRONMENTAL IMPACT SUMMARY:

1. Primary Impacts

- a. Construction: Blowing dust, temporary surface disruption, and noise from construction equipment will occur during construction, but these impacts are expected to be minor and temporary in nature.
- b. Environmental: Environmental impacts of the project are expected to be temporary in nature. The proposed improvements will allow the water system to operate more efficiently and provide safe and reliable drinking water to the city's customers for the next 20 years.
- c. Financial: The current average residential user charge for drinking water is \$21.00 per 5,000 gallons. The proposed project is expected to increase the city's average monthly residential user charge for drinking water to approximately \$60.00 per 5,000 gallons.

2. Secondary:

- a. Population Impacts: This project is designed to serve the existing water system. No relocation of people or structures is anticipated.
- b. Land Use and Trends: This project is located within the city limits of LaGrange. No significant change in land use trends is expected to result from this project.
- c. Environmental: No significant secondary environmental impacts are expected as a result of this project.

3. Mitigation Measures Necessary to Eliminate Adverse Environmental Effects: Noise, dust, and erosion normally associated with construction will be minimized by good engineering and construction practices. Restoration of disturbed areas along the water mains will be undertaken after construction is complete. Any debris such as demolition and construction waste, trees, or brush, will be disposed of properly.

A cultural resource survey was conducted for the project. The survey was conducted by Environmental Research Center, LLC in July of 2023. It was concluded that no further cultural resource investigation is recommended for the area.

4. Irreversible and Irretrievable Commitment of Resources: Fuel, chemicals, and construction materials will be irretrievably committed to the project. Future funds will be committed to the operation and maintenance of the water system.
5. Positive Environmental Effects to be Realized from the Proposed Project: The proposed improvements to the city's system will help provide better water quality, improve operations, reduce pressure loss, extend the system's life cycle, and provide more reliability throughout the system.

6. Reasons for Concluding there will be No Significant Impact: The proposed project will have a positive impact on water quality and reliability. Population densities and land use trends will not be significantly affected. Where minor impacts occur, appropriate mitigation measures are planned.

PUBLIC PARTICIPATION:

1. Public Involvement: The city conducted a public meeting to discuss the proposed project improvements, the engineering alternatives, and environmental impacts of the project on June 24, 2024, at 118 South Main Street in LaGrange, Missouri. Notice of the meeting appeared May 23, 2024, in Press-News Journal.
2. Public Opposition or Opinions: No adverse comments on the proposed project were received.

COORDINATION AND DOCUMENTATION WITH OTHER AGENCIES AND SPECIAL INTEREST GROUPS:

1. Facility Plan:
 - City of LaGrange Main Street Water Main Replacement dated February 9, 2022, prepared by Klingner & Associates, P.C.
 - Environmental Information Document dated June 2024, prepared by Klingner & Associates, P.C.

2. Federal: ☒ U.S.F.W.S. ☒ Corps of Engineers

3. State:

Environmental Notices

- a. Missouri Department of Natural Resources – Division of State Parks
- b. Missouri Department of Natural Resources – Missouri Geological Survey
- c. Missouri Office of Administration – Federal Assistance Clearinghouse
- d. Missouri Department of Conservation

Historical and Cultural Notices

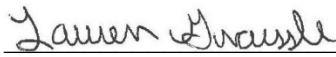
- a. Missouri Department of Natural Resources – State Historic Preservation Office
- b. Native American Tribes

4. Consulting Engineer: Klingner & Associates, P.C.
4510 Paris Gravel Road
Hannibal, MO 63401

This action is taken on the basis of a careful review of the facility plan on file in the office of the Missouri Department of Natural Resources' Financial Assistance Center at 1101 Riverside Drive, Jefferson City, MO 65101. These are available for public review upon request Monday through Friday, 8:00 a.m. to 5:00 p.m. This agency will not take any administrative action on this project for at least 30 calendar days from the date of this document. Persons wishing to comment on the above environmental decision may submit comments to Lauren Graessle, P.E., of the Department of Natural Resources, Financial Assistance Center, P.O. Box 176, Jefferson City, MO 65102-0176, during this period. Thank you.

Sincerely,

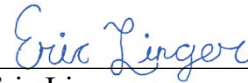
FINANCIAL ASSISTANCE CENTER



Lauren Graessle, P.E.
Director

LG:elc

Attachments



Eric Linger
Assistant Engineer

July 30, 2024

Date

DISTRIBUTION

Department of Conservation
P.O. Box 180
Jefferson City, MO 65102

Conservation Federation of Missouri
728 West Main Street
Jefferson City, MO 65101

U.S. Environmental Protection Agency
c/o Carter Tharp – WWPD/SRFB
Tharp.carter@epamail.epa.gov

Missouri Department of Natural Resources
Missouri Geological Survey
Environmental Geology Section
P.O. Box 250
Rolla, MO 65402-0250

Missouri Department of Natural Resources
Division of State Parks
State Historic Preservation Office
P.O. Box 176
Jefferson City, MO 65102-0176

U.S. Fish and Wildlife Service
Ecological Services
101 Park DeVille Drive, Suite A
Columbia, MO 65203-0057

National Park Service
Midwest Region
mwro_compliance@nps.gov

USDA Rural Development
601 Business Loop 70 West
235 Parkade Center
Columbia, MO 65203

Gilmore and Bell, P.C.
c/o Shannon Walsh Creighton
One Metropolitan Square
211 North Broadway, Suite 2000
St. Louis, MO 63102-2741

Osage Nation Historic Preservation Office
627 Grandview
Pawhuska, OK 74056

SRF File DW291384-01

City of LaGrange
c/o John Roach
City Administrator
118 South Main Street
LaGrange, MO 63448

Klingner & Associates, P.C.
c/o Mark C. Bross, P.E.
4510 Paris Gravel Road
Hannibal, MO 63401

Missouri Department of Natural Resources
Northeast Regional Office
1709 Prospect Drive
Macon, MO 63552-2602

Lewis County Press-News Journal
109 North 4th Street
LaGrange, MO 63448

Environmental Protection Agency
Office of Federal Activities
Ariel Rios (2252A)
1200 Pennsylvania Avenue, N.W.
Washington, DC 20004

Council of Environmental Quality
722 Jackson Place, N.W.
Washington, DC 20503

U.S. Army Corps of Engineers
Rock Island District
P.O. Box 2004
Rock Island, IL 61204

Northeast MO Regional Planning Commission
121 South Cecil Street
Memphis, MO 63555

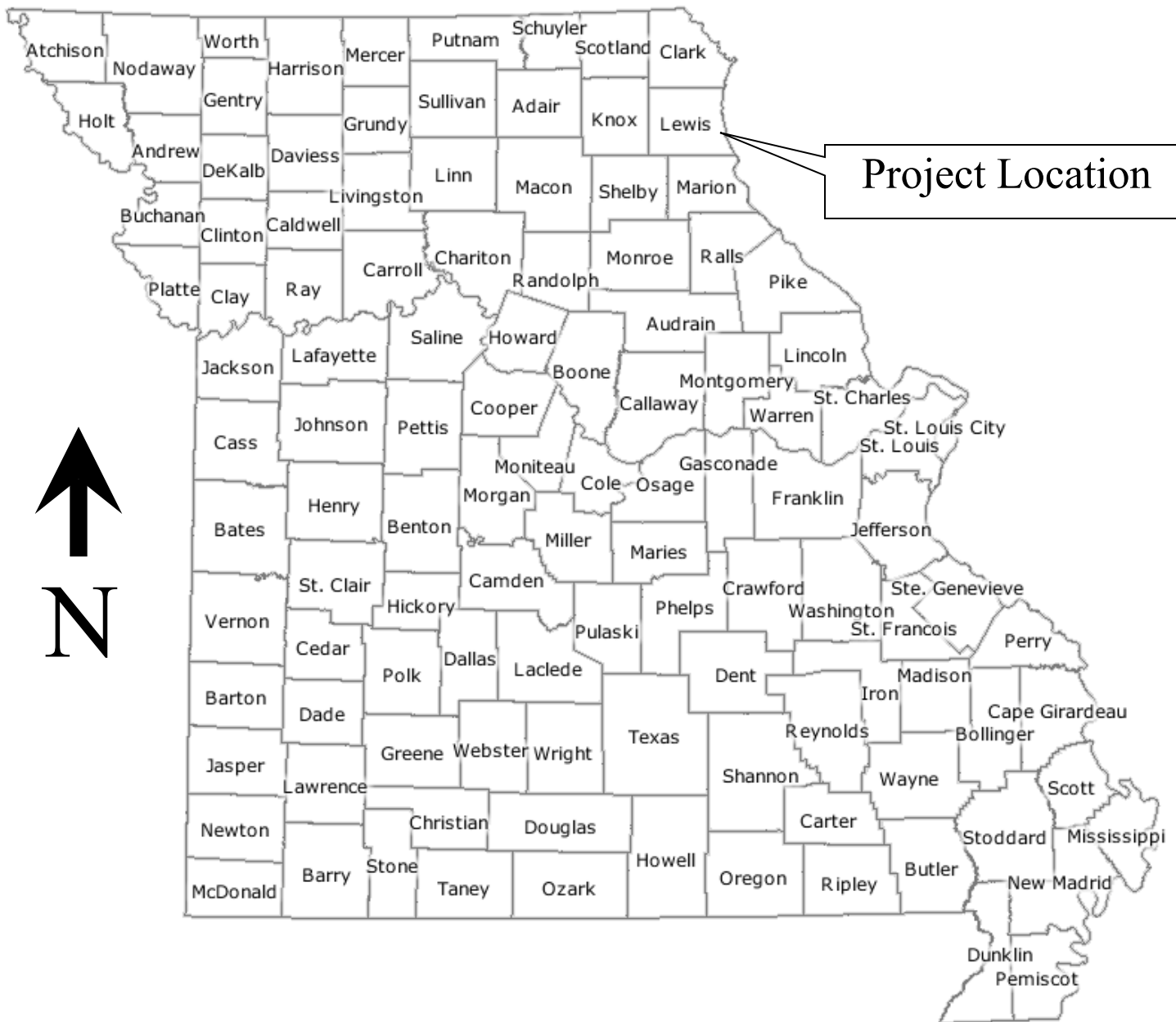
Lewis, Rice
c/o David Brown
600 Washington Avenue, Suite 2500
St. Louis, MO 63102

Attached Maps

1. State Map/Project Location Map
2. Project Location Map

State of Missouri

City of LaGrange, MO



Project Location Map

